

## AMENDMENTS TO THE SPECIFICATION

**On page 20, please replace the paragraph beginning and ending on line 5 with the following amended paragraph:**

Figure 6 depicts a structure (SEQ ID NOS:15 and 17) which cannot be amplified using DNAP*Taq*.

**On page 20, please replace the paragraph beginning on line 17 and ending on line 18 with the following amended paragraph:**

Figure[[s]] 12A shows the substrates (SEQ ID NO:32) and oligonucleotides (SEQ ID NOS:18 and 19) used to test the specific cleavage of substrate DNAs targeted by pilot oligonucleotides.

**On page 20, please replace the paragraphs beginning on line 21 and ending on line 26 with the following amended paragraphs:**

Figure 13A shows the substrate (SEQ ID NO:161) and oligonucleotide (SEQ ID NO:20) used to test the specific cleavage of a substrate RNA targeted by a pilot oligonucleotide.

Figure 13B shows an autoradiogram of a gel showing the results of a cleavage reaction using the substrate and oligonucleotide shown in Fig. 13A.

Figure 14 is a diagram of vector pTTQ18 comprising SEQ ID NO:162.

Figure 15 is a diagram of vector pET-3c comprising SEQ ID NO:163.

**On page 21, please replace the paragraph beginning on line 5 and ending on line 6 with the following amended paragraph:**

Figure 19A depicts the substrate molecule (SEQ ID NO:164) used to test the ability of synthesis-deficient DNAPs to cleave short hairpin structures.

**On page 21, please replace the paragraphs beginning on line 9 and ending on line 13 with the following amended paragraphs:**

Figure 20A shows the A- and T-hairpin molecules (SEQ ID NOS:23-24) used in the trigger/detection assay.

Figure 20B shows the sequence of the alpha primer (SEQ ID NO:25) used in the trigger/detection assay.

Figure 20C shows the structure of the cleaved A- (SEQ ID NO:28) and T-hairpin (SEQ ID NO:27) molecules.

**On page 21, please replace the paragraph beginning on line 16 and ending on line 17 with the following amended paragraph:**

Figure 21 provides the complete 206-mer duplex sequence (SEQ ID NO:32) employed as a substrate for the 5' nucleases of the present invention (shown within SEQ ID NO:165).

Please renumber Claims pages 396-398 and 400-401 as consecutive pages 306-310.

Please renumber the Abstract page as page 401.

Please substitute the Sequence Listing attached herewith as pages 1-96 for the Sequence Listing filed August 8, 2001, as pages 306-395.